Graduate School Seminar

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INSTITUT FÜR PHYSIK

Talks in SoSe 2019

Traditio et Innovatio

Universität Rostock

4th July 2019, **15:00 s.t.**

Miguel Andre Argüello Cordero

AG Dynamics of Molecular Systems

Transient Absorption Spectroscopy of Photoredox Catalysts

In the past decade, the application of molecular chromophores for preparative chemistry gained great interest due to their ability of promote homogeneous catalyzed conversions mediated by light. The advantage is not only the use of light as a renewable source of energy, but also the access to new synthetic pathways. Usually, the noble metals ruthenium or iridium catalysts were used. Because of high costs and limited abundance in nature, non-noble metal-based catalysts need to be studied. For example iron-based complexes. In this talk, I would like to present possible iron-based photoredox catalysts we examine in our group and one possible method for their investigation. Using transient absorption spectroscopy, we are able to draw conclusions concerning the molecular photophysics of the catalysts.

Talk: English
Slides: English